

For between HN-L

sense strand:

5'-cccagggtgaatgggaagggccggccaggtcatggatgggcaggagtcc-3' (SEQ ID NO: 29),

antisense strand:

5'-ggactcctgcccatccatgacctggccggcccttccattcaccctggg-3' (SEQ ID NO: 30).

In the claims:

Amend claims 1-7 and 9 as follows.

*A3  
comd.*

1. (Amended) A replicable paramyxovirus vector carrying a foreign gene that is located downstream of a gene encoding a viral protein in the negative strand genomic RNA contained within said vector, wherein said vector is capable of expressing said foreign gene.

2. (Amended.) A replicable paramyxovirus vector of claim 1, wherein said vector is selected from the group consisting of the vectors of (a) to (f) below,

*A4  
comd.*

(a) a vector in which the foreign gene is inserted between the 1<sup>st</sup> gene encoding a viral protein and the 2<sup>nd</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector;

(b) a vector in which the foreign gene is inserted between the 2<sup>nd</sup> gene encoding a viral protein and the 3<sup>rd</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector;

(c) a vector in which the foreign gene is inserted between the 3<sup>rd</sup> gene encoding a viral protein and the 4<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector;

- (d) a vector in which the foreign gene is inserted between the 4<sup>th</sup> gene encoding a viral protein and the 5<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector;
- (e) a vector in which the foreign gene is inserted between the 5<sup>th</sup> gene encoding a viral protein and the 6<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector; and
- (f) a vector in which the foreign gene is inserted between the 6<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector, and the 5' end of said negative strand genomic RNA.

3. (Amended) The vector of claim 2, wherein the 1<sup>st</sup> to 6<sup>th</sup> genes encoding viral proteins, counting from the 3' end to the 5' end of the negative strand genomic RNA contained within the vector, are in the following order: NP gene, P gene, M gene, F gene, HN gene, and L gene.

4. (Amended) An isolated DNA corresponding to (a) the negative strand genomic RNA contained in the paramyxovirus vector of claim 1 or (b) the complementary RNA of said negative strand genomic RNA.

5. (Amended) An isolated DNA corresponding to (a) the negative strand genomic RNA contained in a replicable paramyxovirus vector, or (b) the complementary RNA of said negative strand genomic RNA, wherein said DNA comprises a cloning site for inserting a foreign gene downstream of a gene encoding a viral protein in the negative strand genomic RNA contained with said vector.
6. (Amended) An isolated DNA of claim 5, wherein said DNA is selected from the group consisting of the DNAs of (a) to (f) below,

- (a) a DNA comprising a cloning site for inserting a foreign gene between the 1<sup>st</sup> gene encoding a viral protein and the 2<sup>nd</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector;
- (b) a DNA comprising a cloning site for inserting a foreign gene between the 2<sup>nd</sup> gene encoding a viral protein and the 3<sup>rd</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector;
- (c) a DNA comprising a cloning site for inserting a foreign gene between the 3<sup>rd</sup> gene encoding a viral protein and the 4<sup>th</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector;
- A4 contd.* (d) a DNA comprising a cloning site for inserting a foreign gene between the 4<sup>th</sup> gene encoding a viral protein and the 5<sup>th</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector;
- (e) a DNA comprising a cloning site for inserting a foreign gene between the 5<sup>th</sup> gene encoding a viral protein and the 6<sup>th</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector; and
- (f) a DNA comprising a cloning site for inserting a foreign gene between the 6<sup>th</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector, and the 5' end of said negative strand genomic RNA.

7. (Amended) The isolated DNA of claim 6, wherein the 1<sup>st</sup> to 6<sup>th</sup> genes encoding viral proteins, counting from the site equivalent to the 3' end to the site equivalent to the 5' end of the negative strand genomic RNA contained within the vector are in the following order: NP gene, P gene, M gene, F gene, HN gene, and L gene.

9. (Amended) The vector DNA of claim 8, which transcribes positive strand genomic RNA.

Add the following new claims 10-22 as follows.

10. (New) The vector of claim 1, wherein said vector is a Sendai virus vector.

11. (New) The vector of claim 10, wherein said vector is selected from the group consisting of the vectors of (a) to (f) below.

(a) a vector in which the foreign gene is inserted between the 1<sup>st</sup> gene encoding a viral protein and the 2<sup>nd</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector;

(b) a vector in which the foreign gene is inserted between the 2<sup>nd</sup> gene encoding a viral protein and the 3<sup>rd</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector;

(c) a vector in which the foreign gene is inserted between the 3<sup>rd</sup> gene encoding a viral protein and the 4<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector;

- (d) a vector in which the foreign gene is inserted between the 4<sup>th</sup> gene encoding a viral protein and the 5<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector;
- (e) a vector in which the foreign gene is inserted between the 5<sup>th</sup> gene encoding a viral protein and the 6<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector; and
- (f) a vector in which the foreign gene is inserted between the 6<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector, and the 5' end of said negative strand genomic RNA.

12. (New) The vector of claim 11, wherein the 1<sup>st</sup> to 6<sup>th</sup> genes encoding viral proteins, counting from the 3' end to the 5' end of the negative strand genomic RNA contained within the vector, are in the following order: NP gene, P gene, M gene, F gene, HN gene, and L gene.

13. (New) An isolated DNA corresponding to (a) the negative strand genomic RNA contained in the paramyxovirus vector of claim 10, or (b) the complementary RNA of said negative strand genomic RNA.

14. (New) An isolated DNA corresponding to (a) the negative strand genomic RNA contained in a replicable Sendai virus vector, or (b) the complementary RNA of said negative strand genomic RNA, wherein said DNA comprises the cloning site for inserting a foreign gene downstream of a gene encoding a viral protein in the negative strand genomic RNA contained with said vector.

15. (New) An isolated DNA of claim 14, wherein said DNA is selected from the group consisting of the DNAs of (a) to (f) below,

- (a) a DNA comprising a cloning site for inserting a foreign gene between the 1<sup>st</sup> gene encoding a viral protein and the 2<sup>nd</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector;
- (b) a DNA comprising a cloning site for inserting a foreign gene between the 2<sup>nd</sup> gene encoding a viral protein and the 3<sup>rd</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector;
- (c) a DNA comprising a cloning site for inserting a foreign gene between the 3<sup>rd</sup> gene encoding a viral protein and the 4<sup>th</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector;
- AG contd. (d) a DNA comprising a cloning site for inserting a foreign gene between the 4<sup>th</sup> gene encoding a viral protein and the 5<sup>th</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector;
- (e) a DNA comprising a cloning site for inserting a foreign gene between the 5<sup>th</sup> gene encoding a viral protein and the 6<sup>th</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector; and
- (f) a DNA comprising a cloning site for inserting a foreign gene between the 6<sup>th</sup> gene encoding a viral protein from the site equivalent to the 3' end of the negative strand genomic RNA contained within the vector, and the 5' end of said negative strand genomic RNA.

16. (New) The isolated DNA of claim 15, wherein the 1<sup>st</sup> to 6<sup>th</sup> genes encoding viral proteins, counting from the site equivalent to the 3' end to the site equivalent to the 5' end of the negative strand genomic RNA contained within the vector are in the following order: NP gene, P gene, M gene, F gene, HN gene, and L gene.

17. (New) A vector DNA carrying the DNA of claim 13 or 14 in an expressible manner.

18. (New) The vector DNA of claim 17, which transcribes positive strand genomic RNA.

19. (New) A method for regulating the expression level of a foreign gene within a replicable paramyxovirus vector, wherein said method comprises a step of locating the foreign gene downstream of a gene encoding a viral protein in the negative strand genomic RNA contained within said vector.

AG contd. 20. (New) The method of claim 19, wherein said method comprises a step selected from the group consisting of (a) to (f) below,

- (a) a step of inserting the foreign gene between the 1<sup>st</sup> gene encoding a viral protein and the 2<sup>nd</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector;
- (b) a step of inserting the foreign gene between the 2<sup>nd</sup> gene encoding a viral protein and the 3<sup>rd</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector;
- (c) a step of inserting the foreign gene between the 3<sup>rd</sup> gene encoding a viral protein and the 4<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector;

- (d) a step of inserting the foreign gene between the 4<sup>th</sup> gene encoding a viral protein and the 5<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector;
- (e) a step of inserting the foreign gene between the 5<sup>th</sup> gene encoding a viral protein and the 6<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector; and
- (f) a step of inserting the foreign gene between the 6<sup>th</sup> gene encoding a viral protein from the 3' end of the negative strand genomic RNA contained within the vector, and the 5' end of said negative strand genomic RNA.

21. (New) The method of claim 20, wherein the 1<sup>st</sup> to 6<sup>th</sup> genes encoding viral proteins, counting from the 3' end to the 5' end of the negative strand genomic RNA contained within the vector, are in the following order: NP gene, P gene, M gene, F gene, HN gene, and L gene.

22. (New) The method of claim 19, wherein the vector is a Sendai virus vector.

Seq. List.  
Placed  
before  
cls.